IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

David R. Hembree

Serial No.: Not yet assigned

Filed: July 22, 2003

For: CHIP ON BOARD AND HEAT SINK

ATTACHMENT METHODS

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: 3592.8US

(97-0321.08/US)

NOTICE OF	EXPRESS	MAILING
-----------	----------------	---------

Express Mail Mailing Label Num	ber: EV325769923US	
Date of Deposit with USPS:	July 22, 2003	· · · · · · · · · · · · · · · · · · ·
Person making Deposit:	Blake Johnson	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

The present application is a continuation of application Serial No. 09/511,609, filed February 23, 2000, pending, which is a divisional of application Serial No. 09/146,945, filed September 3, 1998, now U.S. Patent 6,117,797, issued September 12, 2000.

Pursuant to M.P.E.P. 2001.06(b), the Examiner is respectfully requested to consider the information of record in the prior applications, and to confirm in the first Office Action on the merits that such art has in fact been reviewed. A PTO-1449 form listing all of the information of record in the prior applications is enclosed herewith.

Attorney Docket: 3592.8US (97-0321.08/US)

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. 1.17(p) is required.

Respectfully submitted,

James R. Duzan

Registration No. 28,393

Attorney for Applicant

TRASKBRITT

P. O. Box 2550

Salt Lake City, Utah 84110-2550

Sames R. Sugar

Telephone: (801) 532-1922

Date: July 22, 2003

JRD/sls:djp

Enclosure: Form

Form PTO-1449

(...

Sheet 1 of 9

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

Docket Number (Optional)
3592.8US (97-0321.08/US)

Application Number Not yet assigned

Applicant David R. Hembree

- 49				· · · ·			
EXAMINER	DOCUMENT	U.S. PA	ATENT DOCUMENTS	T	· · · · · · · · · · · · · · · · · · ·	FILDICE	NATE.
INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D IF APPRO	
	4,024,570	05/1977	Hartmann et al.				· · · · · ·
<u> </u>	4,059,467	11/1977	Mancke et al.				
	4,059,708	11/1977	Heiss, Jr. et al.				
	4,081,825	03/1978	Koopman et al.		 	· · · · · · · · · · · · · · · · · · ·	
	4,143,456	03/1979	Inoue		 	<u></u>	
	4,264,917	04/1981	Ugon		-		
	4,300,153	11/1981	Hayakawa et al.				
	4,323,914	04/1982	Berndlmaier et al.				
	4,358,552	11/1982	Shinohara et al.				
	4,507,675	03/1985	Fujii et al.				
	4,602,678	07/1986	Fick				
	4.628.406	12/1986	Smith et al.				
	· · · · · · · · · · · · · · · · · · ·	FOREIGN	PATENT DOCUMENT	ΓS _.			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	52-77684	06/1977	Japan				
	55-128835	10/1980	Japan				+
	56-4241	01/1981	Japan				
	60-94744	05/1985	Japan			:	
	60-178651	09/1985	Japan	<u>.</u>			j
	,	OTI	HER DOCUMENTS	(Inch	iding Author, Title,	Date, Pertiner	nt Pages,
	Crum, Tree		nponent Technologies, Electroni	c Packaging &	Production (January 1	1998)
	1 1	acuum Dispensing of 1998), pages 87-91.	Encapsulants for µBGA Manufo	acturing, Elect	ronic Packag	ing & Pro	oducti
	Markstein, 1997), pag		for Today's Electronics, Electro	onic Packaging	& Productio	n (Noven	nber

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 2 of 9 Docket Number (Optional) **Application Number** Form PTO-1449 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown U.S. PATENT DOCUMENTS **EXAMINER DOCUMENT** FILING DATE DATE NAME **CLASS SUBCLASS** IF APPROPRIATE INITIAL NUMBER Rohsler et al. 02/1987 4,642,671 01/1989 Okuaki 4,801,998 Pashby et al. 08/1989 4,862,245 Grabbe 4,873,615 10/1989 4,931,852 06/1990 Brown et al. 4,942,140 Ootsuki et al. 07/1990 4,961,107 Geist et al. 10/1990 01/1991 Kubota et al. 4,984,059 Wong 09/1991 5,051,275 5,071,787 Mori et al. 12/1991 5,081,067 01/1992 Shimizu et al. Murphy 03/1992 5,101,465 5,108,955 Ishida et al. 04/1992 FOREIGN PATENT DOCUMENTS Translation **DOCUMENT** COUNTRY **SUBCLASS** DATE CLASS NUMBER NO YES 05/1987 62-109326 Japan 62-115834 05/1987 Japan 62-261133 11/1987 Japan 2-306639 12/1990 Japan OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Smith, Packaging to Beat the Heat, Semiconductor International (November 1997), pages 73-76. Die Attach Products, Johnson Matthey Electronics, Product Data (07/01/94), 6 pages. Product Bulletin, Dexter Electronic Materials Division (undated), 2 pages. DATE CONSIDERED **EXAMINER** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not

in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 3 of 9 Docket Number (Optional) **Application Number** Form PTO-1449 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT FILING DATE DATE NAME **CLASS** SUBCLASS IF APPROPRIATE NUMBER INITIAL Tsukagoshi et al. 06/1992 5,120,665 Eichelberger 09/1992 5,144,747 5,173,764 Higgins, III 12/1992 5,175,613 12/1992 Barker, III et al. 5,182,173 01/1993 Swei 5,184,208 02/1993 Sakuta et al. Papathomas et al. 03/1993 5,194,930 5,201,866 04/1993 Mok 5,218,759 06/1993 Juskey et al. 5,233,220 08/1993 Lamson et al. 5,239,200 Messina et al. 08/1993 5,249,101 Frey et al. 09/1993 Michii 5,252,853 10/1993 FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** NUMBER YES NO 05/1992 4-157758 Japan **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER DATE CONSIDERED**

(2-92)

Sheet 4 of 9 **Docket Number (Optional)** Application Number Form PTO-1449 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT FILING DATE NAME DATE CLASS **SUBCLASS** INITIAL NUMBER IF APPROPRIATE 02/1994 Farnworth et al. 5,286,679 5,289,346 02/1994 Carey et al. 5,291,064 Kurokawa 03/1994 5,304,842 04/1994 Farnworth et al. 5,311,060 05/1994 Rostoker et al. 5,344,795 Hashemi et al. 09/1994 5,358,598 10/1994 Chiu 5,358,904 10/1994 Murakami et al. 5,358,906 10/1994 Lee Yoshida et al. 5,371,044 12/1994 5,378,924 01/1995 Liang FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS NUMBER** YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

(2-92)

Sheet 5 of 9 Docket Number (Optional) Form PTO-1449 **Application Number** 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown **U.S. PATENT DOCUMENTS EXAMINER DOCUMENT** FILING DATE DATE NAME **CLASS SUBCLASS** NUMBER INITIAL IF APPROPRIATE 01/1995 5,379,186 Gold et al. 5,379,187 01/1995 Lee et al. Carey et al. 01/1995 5,379,191 01/1995 5,385,869 Liu et al. 5,387,554 02/1995 Liang 5,394,303 02/1995 Yamaji 5,396,403 03/1995 Patel 5,432,127 07/1995 Lamson et al. 5,432,675 07/1995 Sorimachi et al. 5,434,105 07/1995 Liou 5,436,203 07/1995 Lin FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY **CLASS SUBCLASS** NUMBER YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Sheet 6 of 9 Docket Number (Optional) Application Number Form PTO-1449 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown **U.S. PATENT DOCUMENTS** FILING DATE DOCUMENT **EXAMINER CLASS** DATE NAME **SUBCLASS** IF APPROPRIATE INITIAL NUMBER Juskey et al. 5,438,216 08/1995 08/1995 Lee 5,441,684 Lin et al. 5,450,283 09/1995 Bigler et al. 5,455,200 10/1995 Kurokawa 5,455,457 10/1995 Chan et al. 5,461,255 10/1995 Higgins, III 5,468,995 11/1995 5,477,082 Buckley, III et al. 12/1995 Nishimura et al. 5,488,254 01/1996 5,489,538 Rostoker et al. 02/1996 5,489,801 02/1996 Blish, II 07/1996 5,541,446 Kierse FOREIGN PATENT DOCUMENTS Translation DOCUMENT **COUNTRY** CLASS SUBCLASS DATE NUMBER YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DATE CONSIDERED

EXAMINER

Sheet 7 of 9 Docket Number (Optional) **Application Number** Form PTO-1449 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT FILING DATE **SUBCLASS** NAME **CLASS** DATE INITIAL NUMBER IF APPROPRIATE 5,552,635 09/1996 Kim et al. Baker et al. 5,579,573 12/1996 01/1997 Otsuki 5,594,282 5,596,231 Combs 01/1997 Wakefield 5,598,034 01/1997 Hamburgen et al. 5,604,376 02/1997 5,610,442 03/1997 Schneider et al. 06/1997 Ohta et al. 5,641,997 Ootsuki et al. 5,652,461 07/1997 Kishita 5,656,857 08/1997 5,659,952 Kovac et al. 08/1997 FOREIGN PATENT DOCUMENTS Translation DOCUMENT DATE COUNTRY CLASS **SUBCLASS** NUMBER YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not

in conformance and not considered. Include copy of this form with next communication to the applicant.

(2-92)Sheet 8 of 9 Docket Number (Optional) **Form PTO-1449** Application Number 3592.8US (97-0321.08/US) Not yet assigned INFORMATION DISCLOSURE CITATION Applicant David R. Hembree IN AN APPLICATION (Use several sheets if necessary) Filing Date July 22, 2003 Group Art Unit Unknown U.S. PATENT DOCUMENTS DOCUMENT **EXAMINER** FILING DATE NAME DATE CLASS **SUBCLASS** INITIAL NUMBER IF APPROPRIATE 5,663,106 Karavakis et al. 09/1997 5,672,548 09/1997 Culnane et al. 5,681,757 Hayes 10/1997 5,701,034 12/1997 Marrs Mostafazadeh et al. 5,705,851 01/1998 5,891,753 04/1999 Akram 5,898,571 04/1999 Mertol MacDonald, Jr. et al. 05/1999 5,905,638 06/1999 Mertol 5,909,056 Toy et al. 5,931,222 08/1999 06/2000 6,081,027 Akram FOREIGN PATENT DOCUMENTS Translation DOCUMENT **SUBCLASS** DATE COUNTRY CLASS NUMBER YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

۱۳.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional) 3592.8US (97-0321.08/US) Application Number Not yet assigned

Applicant David R. Hembree

Filing Date July 22, 2003

Group Art Unit Unknown

	(Use several sheets	if necessary)	Filing Date July 22,	2003	Group Art Ur	nt Unkno	wn ———
	ود بخور	U.S. PA	TENT DOCUMENTS				-
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D IF APPRO	
	6,117,797	09/2000	Hembree				
<u>.</u>	6,121,680	09/2000	Chiu et al.				
	6,229,204	05/2001	Hembree				
	6,232,152	05/2001	DiStefano et al.				
	6,249,436	06/2001	Bollesen				
	6,251,707	06/2001	Bernier et al.				
	6,432,840	08/2002	Hembree				
	6,451,709	09/2002	Hembree		ļ		
	6,596,565	07/2003	Hembree			<u> </u>	·
					ļ		
						<u> </u>	
		FOREIGN	PATENT DOCUMEN	TS			
-	DOCUMENT	DATE	COUNTRY	CLASS	SS SUBCLASS	Translation	
··	NUMBER					YES	NO
	 					-	-
	 				 	}	+-
·			·			<u> </u>	
· · · · · · · · · · · · · · · · · · ·		OTI	IER DOCUMENTS	(Incl	uding Author, Title,	Date, Pertiner	nt Pages,
	1						
						· .	
	1						
·							
						<u>.</u>	
(AMINER			DATE CONSIDE	DED			·

citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.